

POLYAMINO ACID BLOCK COPOLYMER AND PREPARATION THEREOF

Patent number: JP55145736
Publication date: 1980-11-13
Inventor: EBIHARA NARIYOSHI; others: 02
Applicant: AGENCY OF IND SCIENCE & TECHNOL
Classification:
- international: C08G69/10
- european:
Application number: JP19790053624 19790501
Priority number(s):

Abstract of JP55145736

PURPOSE: To obtain a polyamino acid block copolymer with excellent antithrombotic property useful as a medical material by alternately and regularly arranging alanine polymer blocks and gamma-benzylglutamic acid blocks.

CONSTITUTION: (A) Alanine polymer block and (B) gamma-benzylglutamic acid polymer block are alternately and regularly arranged to prepare a polyamino acid copolymer having a molecular structure expressed by the formulae I-IV (wherein A is an alanine polymer block, B is a gamma-benzylglutamic acid polymer block). Herein, a polymerization degree of each block unit of A, B is pref. above 50. For example, to prepare a copolymer expressed by the formula I, N-carboxy anhydride of alanine is dissolved in an org. solvent and a polymerization initiator is added to react with stirring for two days, subsequently N-carboxy anhydride of gamma-benzylglutamic acid dissolved in an org. solvent is added and, further, the reaction is carried out for one to two days. Thereafter, N-carboxyl anhydride of alanine is added to react for three to four days and the titled copolymer is prepared.

Data supplied from the **esp@cenet** database - Patent Abstracts of Japan